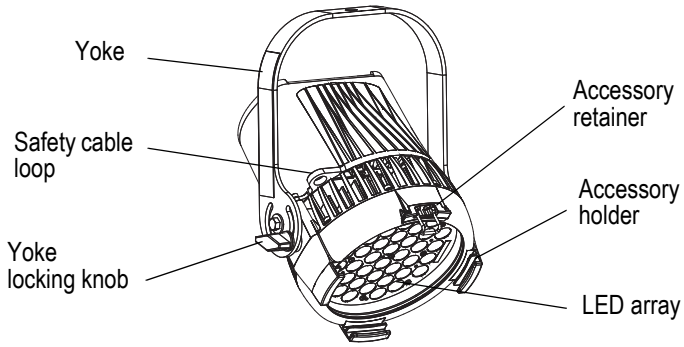
ETC Desire® Quick Guide

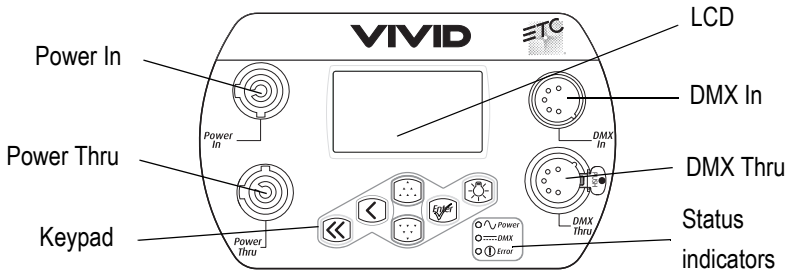
D22, D40, D40XT, D60

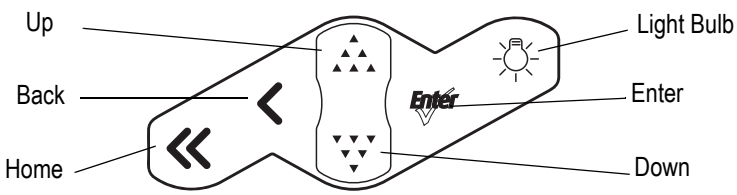
Overview

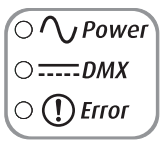
For complete information and step-by-step instructions, see *Desire Series by ETC D22, D40, D40XT, D60 User Manual*. ETC documentation can be downloaded at www.etcconnect.com/downloads.aspx.

The features shown in the following graphics may not appear on all Desire Series fixtures.









Power – Indicates AC power is On.

DMX – Indicates control signal is Active.

Error – Indicates data error, high temperature, or other unusual status.

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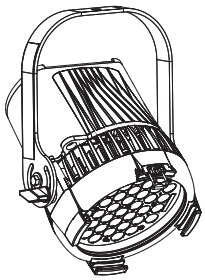
ETC Desire Quick Guide

Desire D22, D40, D40XT, D60 v1.7.0

Install



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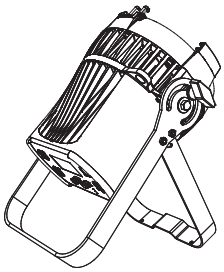
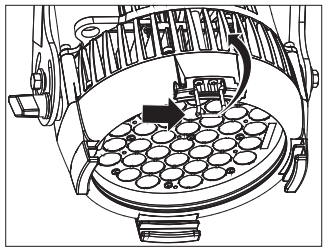
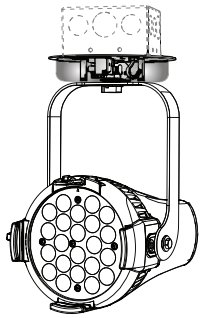


With floor stand



Accessory holder and clip



Canopy mount (D22 only)

Track mount (D22 only)

D22 Portable, D40, D40XT, D60

Step 1: Hang or mount the fixture.

Step 2: Attach safety cable.

Step 3: Insert secondary lens with smooth side out, if desired.

Step 4: Insert additional accessories if desired. (top hat, egg crate, etc.)

WARNING: ***Use only hardware rated for total weight of fixture and accessories.***

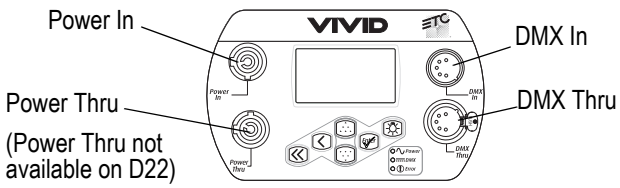
The safety cable (or other approved safety device) must be securely attached to the safety cable loop before loosening the clamp.

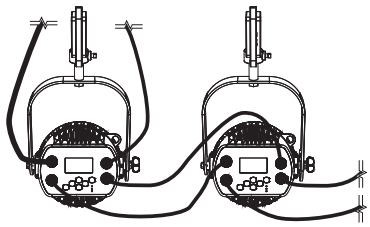
D22 Canopy and D22 Track

See the *Desire Series D22 Installation Guide* for details on installing the Canopy and Track mounted options of the D22 fixture.

Connect

D22 Portable, D40, D40XT, and D60





Step 1: If using external DMX or RDM control, attach a 5-pin XLR cable to DMX In.

Step 2: Connect power cable to AC power.

Step 3: Plug the XLR cable into data source, if applicable.

Step 4: Link any additional fixtures via Power Thru and DMX Thru connectors.

- The D22 fixture does not have the Power Thru option.

WARNING:

- ***Do not link more than nine fixtures when using Power Thru (non-dimming, 100 to 240 VAC, 50/60 Hz). Power Thru is not available on all Desire Series fixtures.***
- ***Up to 32 devices can be daisy-chained together per data run.***
- ***Disconnect Power and DMX before all cleaning and maintenance.***

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Desire D22, D40, D40XT, D60 v1.7.0

Note: *For setup of D22 track and canopy mounted fixtures, see the D22 Installation Guide. ETC documentation can be downloaded at www.etcconnect.com.*

Focus

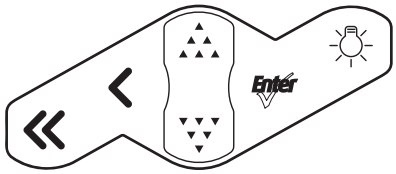
Step 1: Supply power and wait for the fixture to boot up.

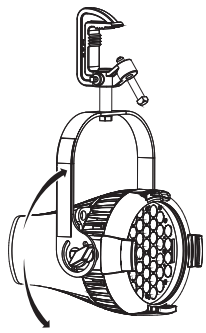
Step 2: Press **[ ]** to open **Presets & Sequences**.

Step 3: Select **Focus** and press **[Enter]** to turn on LED array.

Step 4: Adjust fixture's position.

Step 5: Once focus is set, press **[Enter]** to turn off LED array and then **[<<]** to return to home screen.





Address

Step 1: From the home screen, press **[Enter]** to open **Main Menu**.

Step 2: On the **Main Menu**, scroll to **DMX Start Address**, press **[Enter]**.

Step 3: Use **[▲]** or **[▼]** to scroll to desired address.

Step 4: Press **[Enter]** to select address number.

Step 5: Press **[<<]** to return to home screen.

* DMX address is not needed if using standalone or master/slave control.

Features Quick Setup

Step 1: On the **Main Menu**, scroll to **Quick Setups**.

Step 2: Press **[Enter]**.

Step 3: Scroll to the desired setup and then press **[Enter]**.
An asterisk (*) indicates which setup is active.

Step 4: Press **[<<]** to return to the home screen.
The top line of the home screen displays the name of the active setup.

Individual features and settings are adjustable under the Advanced menu. Consult the User Manual for more information on advanced features of Desire fixtures.

Quick Color (Vivid, Lustr+, Fire and Ice, Studio HD)

Quick Color allows you to easily select a color and its intensity from a predefined menu. This feature overrides any presets or sequences previously selected and is only available when there is no external DMX signal to the fixture.

Note: *Exiting the Quick Color menu will return the fixture to the state it was in prior to entering the menu.*

To select a Quick Color:

Step 1: Press the **[☼]** to access the **Presets and Sequences** screen.

Step 2: Within the **Presets and Sequences** screen, scroll to **Quick Color** and press **[Enter]**.

Step 3: Scroll to **Color** and press **[Enter]**.

Step 4: Scroll to the desired color and press **[Enter].**

Step 5: Scroll to adjust the fixture's intensity and press **[Enter]** to commit the selection.

Step 6: To exit the Quick Color menu, press **[≪]**.

Quick Setups

D40XT, D40, and D60 – Vivid, Lustr+, Fire, Ice, Studio HD
D22 – Lustr+, Studio HD

Quick Setup	Profile	Features	Recommended For:
Studio	Studio	Linear dimming curve, regulated output mode for color consistency	Studio factory default: enables three-parameter control of white light (intensity, white point, and tint) via DMX from a console or console-free fixture display
General	Direct	Standard dimming curve, regulated output for color consistency. 3200K white point setting	Factory default: for general purpose use, including interior architectural applications
Stage	HSI Plus 7 enabled	Incandescent dimming curve, regulated output for color consistency, 3200K white point setting	Theatrical lighting: duplicates the color and dimming behavior of tungsten and stage lighting fixtures
High Impact	RGB	Quick dimming curve, boost mode for maximum intensity, 5600K white point setting	Event lighting: enables quick response, simple RGB control and strobe channel for maximum effect usage

D22, D40, D40XT and D60 – Studio Tungsten and Studio Daylight

Quick Setup	Profile	Features	Recommended For:
Studio	Studio	Linear dimming curve, regulated output for intensity stability	Enables control of intensity from luminaire's user interface; no console required
Single Channel	Direct	Standard dimming curve, regulated output for color consistency	For general purpose architectural use
Stage	Direct	Incandescent dimming curve, regulated output	Matches conventional luminaire performance

DMX Input Channel Profiles

D40, D40XT – Vivid, Lustr+, Fire, Ice, Studio HD; D22 – Lustr+, Studio HD

DMX Profile	DMX Channels	Channel Assignments		Notes
		Vivid, Lustr+	Studio HD	
Direct	9	1 - Red	1 - Red	Direct control of each individual color with a separate master intensity channel. Color calibration of LEDs is not active in this mode. The nine-channel profile will produce the highest quality color cross fades.
		2 - Orange (White if Lustr+)	2 - Orange	
		3 - Amber	3 - Amber	
		4 - Green	4 - Green	
		5 - Cyan	5 - 3200K White	
		6 - Blue	6 -5000K White	
		7 - Indigo	7 - Indigo	
		8 - Intensity	8 - Intensity	
		9- Strobe	9- Strobe	
RGB	5 (Ch. 4 not used)	1-Red		Effectively addresses all seven colors via three channels of control. RGB profile will produce medium quality color cross-fades
		2-Green		
		3-Blue		
		4 - n/a		
		5 - Strobe		
HSI	5	1 – Hue (coarse)		High resolution hue (two channels), saturation, and intensity control. HSI mode will produce color cross-fades around the color space.
		2 – Hue (fine)		
		3 - Saturation		
		4 - Intensity		
		5- Strobe		
HSIC	6	1 – Hue (coarse)		High-resolution hue, saturation, and intensity control as above, with the addition of a color point channel to adjust the color temperature of the fixture in both white light and color. Color cross-fade performance is the same as HSI.
		2 – Hue (fine)		
		3 - Saturation		
		4 - Intensity		
		5 - Strobe		
		6 - Color Point (CCT)		
Studio	3	1 – Intensity		Controls fixture as a white light unit. If no DMX is present, (i.e. console input), a fixture can be adjusted for these three parameters on the U/I at the back of the unit.
		2 – Color Point (CCT)		
		3 - Tint		
Additional profile options				
Plus 7		1 – Hue (coarse) 2 - Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – n/a 7– Plus 7 Control on/off 8– Red 9– Orange (white if Lustr+) 10 – Amber 11 - Green 12 - Cyan 13 - Blue 14- Indigo		Adds seven additional color control channels to RGB, HSI, HSIC, and Studio input profile settings. For example HSI with 'Plus 7' enabled becomes an 14-channel profile The desired color and intensity are achieved by using the HSI or RGB channels Placing channel seven at a value over 51% gives the fixture a 14 channel profile. Channels 8-14 represent the native colors of the fixture and allow the operator to adjust individual color channels to fine tune the color output.
Strobe		Variable strobe control: 0% is no strobe. The fixture output will strobe more rapidly as the strobe-channel value approaches 100%.		

D60 – Vivid, Lustr+, Fire, Ice, Studio HD

DMX Profile	DMX Channels	Channel Assignments	Notes
Direct	10	1 - Red 2 - Orange (White if Lustr+) 3 - Amber 4 - Green 5 - Cyan (3000K white if Studio HD) 6 - Blue (5000K White if Studio HD) 7 - Indigo 8 - Intensity 9- Strobe 10- Fan Control	Direct control of each individual color with a separate master intensity channel. Color calibration of LEDs is not active in this mode. The ten-channel profile will produce the highest quality color cross fades.
RGB	6 (Ch. 4 not used)	1-Red 2-Green 3-Blue 4 - n/a 5 - Strobe 6 - Fan Control	Effectively addresses all seven colors via three channels of control. RGB profile will produce medium quality color cross-fades
HSI	6	1 – Hue (coarse) 2 – Hue (fine) 3 - Saturation 4 - Intensity 5 - Strobe 6 - Fan Control	High resolution hue (two channels), saturation, and intensity control. HSI mode will produce color cross-fades around the color space.
HSIC	7	1 – Hue (coarse) 2 – Hue (fine) 3 - Saturation 4 - Intensity 5 - Color Point (CCT) 6 - Fan Control 7 - Color Point (CCT)	High-resolution hue, saturation, and intensity control as above, with the addition of a color point channel to adjust the color temperature of the fixture in both white light and color. Color cross-fade performance is the same as HSI.
Studio	6 (Ch. 4 not used)	1 – Intensity 2 – Color Point (CCT) 3 - Tint 4 - n/a 5 - Strobe 6 - Fan Control	Controls fixture as a white light unit. If no DMX, i.e. console input, is present, fixture can be adjusted for these three parameters on the U/I at the back of the unit.
Additional profile options on following page			

Plus 7	Adds seven additional color control channels to RGB, HSI, and HSIC input profile settings. For example HSI with 'Plus 7' enabled becomes an 15-channel profile:	
	1 – Hue (coarse) 2 - Hue (fine) 3 – Saturation 4 – Intensity 5 – Strobe 6 – Fan Control 7 – n/a 8 – Plus 7 Control on/off 9 – Red 10 – Orange (white if Lustr+) 11 – Amber 12 - Green 13 - Cyan 14 - Blue 15 -Indigo	The desired color and intensity are achieved by using the HSI or RGB channels Placing channel eight at a value over 51% gives the fixture a 15 channel profile. Channels 9-15 represent the native colors of the fixture and allow the operator to adjust individual color channels to fine tune the color output.
Strobe	Variable strobe control: 0% is no strobe. The fixture output will strobe more rapidly as the strobe-channel value approaches 100%.	

D40XT, D40, and D60 – Studio Tungsten, and Studio Daylight

D22 - Studio Tungsten and Studio Daylight

DMX Profile	DMX Channels	Channel Assignments	Notes
Studio	3	1 - Intensity 2 - Strobe 3 - Fan Control (D60 only)	Direct control of each individual color with a separate master intensity channel. Color calibration of LEDs is not active in this mode. The ten-channel profile will produce the highest quality color cross fades.
Direct	3	1-Intensity 2-Strobe 3-Fan Control (D60 only)	

Typical Power Consumption (D22)

Lustr+

	100V	120V	230V
Idle Power / Current	7.8W / 0.111	7.6W / 0.111A	7.4W / 0.094A
100% Boost Power / Current	56.8W / 0.578	56.5W / 0.475A	55.1W / 0.288

Studio Tungsten

	100V	120V	230V
Idle Power / Current	7.6W / 0.11A	7.6W / 0.11A	7.2W / 0.094A
100% Boost Power / Current	52.4W / 0.532A	51.8W / 0.445A	50.9W / 0.276

Studio Daylight

	100V	120V	230V
Idle Power / Current	7.3W / 0.093A	7.2W / 0.091A	7.3W / 0.124A
100% Boost Power / Current	55.2W / 0.556A	55W / 0.462A	53.8W / 0.268

Studio HD

	100V	120V	230V
Idle Power / Current	6.7W / 0.095A	6.7W / 0.098A	6.7W / 0.118A
100% Boost Power / Current	55W / 0.555A	54.6W / 0.464A	53.3W / 0.271A

Typical Power Consumption (D40 and D40XT)

Vivid

	100V	120V	240V
Idle Power / Current	10.5W / 0.135A	11W / 0.098A	12.7W / 0.078A
100% Boost Power / Current	102W / 1.12A	98W / 0.82A	95.6W / 0.403

Lustr+

	100V	120V	240V
Idle Power / Current	10.3W / 0.125A	10.5W / 0.094A	12.2W / 0.074A
100% Boost Power / Current	104W / 1.16A	102W / 0.861	99.7 W / 0.418

Fire

	100V	120V	240V
Idle Power / Current	10.5W / 0.125A	10.8W / 0.096A	12.5W / 0.076A
100% Boost Power / Current	91.2W / 1.02A	88.2W / 0.74A	87.2W / 0.369A

Ice

	100V	120V	240V
Idle Power / Current	11.0W / 0.123A	11.2W / 0.099A	12.8W / 0.077A
100% Boost Power / Current	104.2W / 1.17A	102.2W / 0.867A	99.5W / 0.42A

Studio HD

	100V	120V	240V
Idle Power / Current	11.1W / 0.134A	11W / 0.097A	12.8W / 0.077A
100% Boost Power / Current	106.2W / 1.19A	103.5W / 0.883A	101.3W / 0.426A

Studio Daylight

	100V	120V	240V
Idle Power / Current	10.6W / 0.123A	10.6W / 0.095A	12.4W / 0.076A
100% Boost Power / Current	105.1W / 1.12A	103.3W / 0.878A	100.8W / 0.424A

Studio Tungsten

	100V	120V	240V
Idle Power / Current	10W / 0.111A	10.1W / 0.093A	11.9W / 0.075A
100% Boost Power / Current	104W / 1.05A	103.1W / 0.872A	100.3W / 0.422A

Typical Power Consumption (D60)

Vivid

	100V	120V	240V
Idle Power / Current	7.6W / 0.083A	7.7W / 0.083A	9.2W / 0.087A
100% Boost Power / Current	139W / 1.41A	136.1W / 1.15A	130.3W / 0.549A

Lustr+

	100V	120V	240V
Idle Power / Current	7.3W / 0.1A	7.4W / 0.77A	9W / 0.086A
100% Boost Power / Current	143W / 1.46A	140.1W / 0.97A	135.1W /

Fire

	100V	120V	240V
Idle Power / Current	7.9W / 0.105A	7.9W / 0.086A	9.4W / 0.089A
100% Boost Power / Current	129W / 1.35A	126.5W / 1.35A	122.7W / 0.52A

Ice

	100V	120V	240V
Idle Power / Current	7.3W / 0.095A	7.4W / 0.081A	9W / 0.085A
100% Boost Power / Current	148.5W / 1.53A	147W / 1.28A	140.2W / 0.592A

Studio HD

	100V	120V	240V
Idle Power / Current	7.2W / 0.086A	7.3W / 0.082A	8.9W / 0.086A
100% Boost Power / Current	146W / 1.5A	143.7W / 1.24A	138.2W / 0.58A

Studio Daylight

	100V	120V	240V
Idle Power / Current	7.5W / 0.09A	7.6W / 0.084A	9.3W / 0.089A
100% Boost Power / Current	145.5W / 1.48A	142.8W / 1.22A	136W / 0.573A

Studio Tungsten

	100V	120V	240V
Idle Power / Current	7.4W / 0.088A	7.5W / 0.083A	9.1W / 0.088A
100% Boost Power / Current	145.8W / 1.49A	143.3W / 1.23A	137.1W / 0.577A